

## Special Issue

# Biomechanics in Sport and Ageing: Artificial Intelligence

### Message from the Guest Editors

The aim of this special issue is to provide a scientific platform for a state-of-the-art update on the progress of artificial intelligence, AI, in sport biomechanics and ageing. AI relies on computers to execute commands that historically required human intelligence. As we can surmise it from Turing's seminal paper, AI builds computational units that mimic human intelligence and abilities: language, communication, comprehension of concepts, automated thinking, (machine) learning, computer vision, and movements via robotics [1]. Supervised or unsupervised machine learning, i.e., the science of coding computers to learn and behave as humans do, as a subset of AI, allows us to discern patterns and structure in data. Deep learning optimizes supervised learning and trains models to learn how to map an input to an expected output [2]. These tools of AI are also becoming ubiquitous in sport biomechanics and ageing research.

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### Guest Editors

Prof. Dr. Tibor Hortobágyi

Dr. Melissa Boswell

Prof. Dr. Ka-Chun (Joseph) Siu

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### Deadline for manuscript submissions

20 December 2025



## Biomechanics

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## About the Journal

### Message from the Editor-in-Chief

*Biomechanics* (ISSN 2673-7078) is an international, peer-reviewed, and open access journal devoted to the fast publication of the latest achievements of scientific research in the area of biomechanics. Both experimental and theoretical papers are published. We hope that the submission guidelines and submission template will assist you in your submission of your research to this journal, and that you will enjoy reading the articles in *Biomechanics*.

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